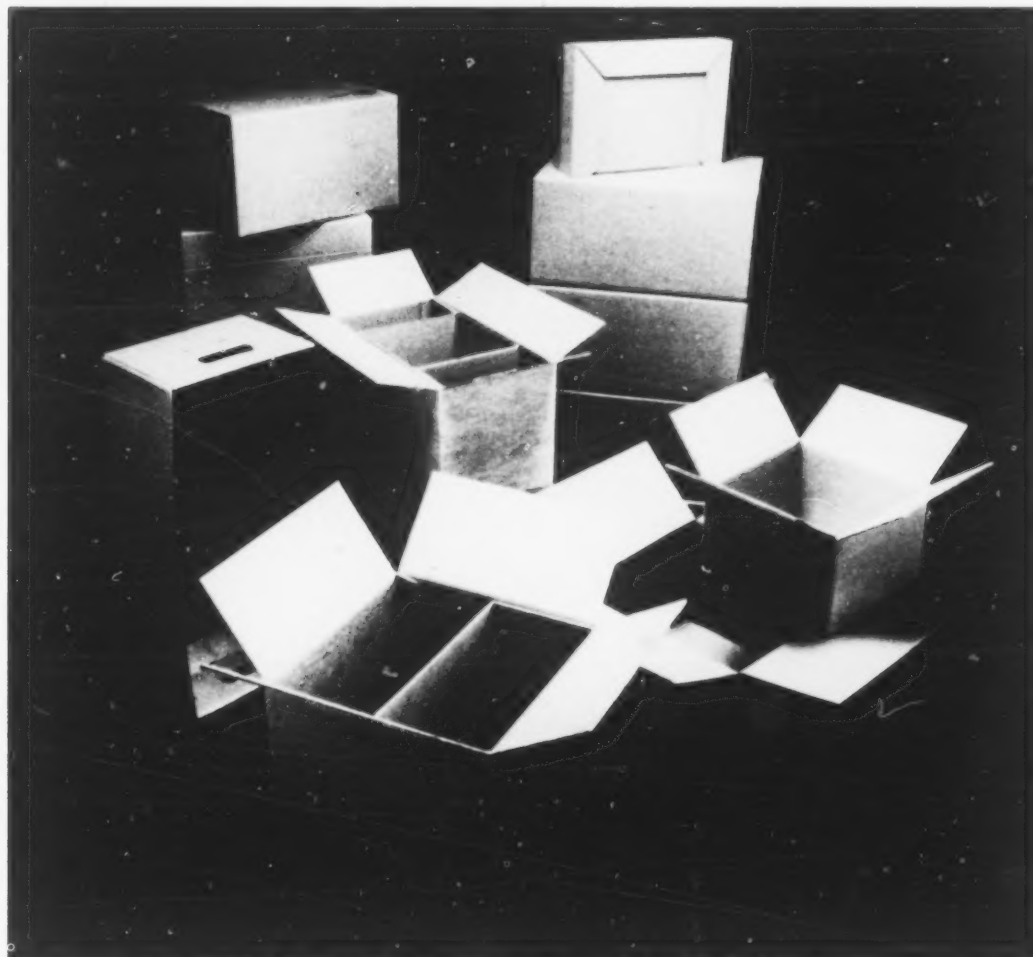


FIBRE BOX INDUSTRY ANNUAL REPORT . 1984



FIBRE BOX ASSOCIATION

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This 1984 Annual Report of the Fibre Box Industry is the 44th in the series published by the Fibre Box Association. An annual voluntary census of non-member information is combined with audited data from member box makers to provide accurate data on the corrugated box industry. All shipments are of finished products; sales of sheets by converters to sheet plants are deducted. Additional data for this report has been provided by the American Paper Institute and the Bureau of Labor Statistics of the U.S. Department of Labor.

By any standard, 1984 was the best year the corrugated box industry ever had. Shipments were up 5.9% over 1983 and sales boomed ahead by 17.5%.

All six areas of the country shared in the upsurge with the East Central and the South Central leading. Each had 8.3% gains. The North East showed the lowest rate of growth with a 1.7% increase.

The pattern of end use distribution did not change significantly. Food at 37%, is far and away the largest single end use for corrugated boxes. Paper is still second at 15%. There were minor changes up and down of less than 1% in some end use categories, but these can be attributed more to changes in the makeup of the companies supplying the data and to actual variations in usage.

One of the most surprising figures in the report is on page 5 where it is shown that there were 59 more plants in existence at the end of 1984 than in 1983 and that all but one of this increased number, were sheet plants. Unfortunately, this change is not necessarily real, but can be due, in very large measure, to the Association having found a better way to count the box plants in the country. Hopefully, in future years comparison from one year to another will, once again be valid but for 1984 growth in the number of plants in the country is questionable.

Productivity has been increasing over the years. Back in 1960, it took 1.06 manhours to produce a thousand square feet of corrugated. In 1983, this figure had dropped to 0.47 hours and remains the same in 1984. Total employment increased by almost 2,000 people during 1984 and stands at 61,500.

1985? It has started well, but economist's projections are not as rosy as they were for 1984. Expectations are for a year which is better than 1984, but no one expects volume to be up another 5.9%.

Long term projections continue optimistic. Corrugated Production correlates quite closely with the nation's Industrial Production and all indications are that we will have continued growth in the economy for the foreseeable future.



James B. Collett
President



Thomas J. Muldoon
Executive Vice President

A handwritten signature in dark ink, reading "James B. Collett". The signature is fluid and cursive, with a long horizontal line extending from the end of the name.

A handwritten signature in dark ink, reading "Tom Muldoon". The signature is cursive and somewhat stylized.

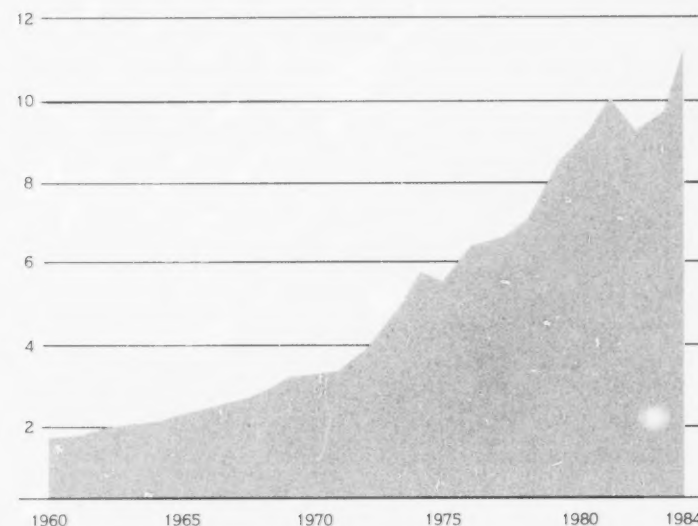
Industry Value of Shipments

Billions of Dollars

YEAR	TOTAL	CORRUGATED	SOLID FIBRE	YEAR TO YEAR GROWTH
1960	\$1,791,171,100	\$1,746,525,600	\$44,645,500	- 0.3%
1961	1,820,090,000	1,777,068,100	43,021,900	+ 1.6
1962	2,000,415,600	1,956,573,300	43,842,300	+ 9.9
1963	2,067,429,400	2,027,179,900	40,249,500	+ 3.3
1964	2,213,855,300	2,175,406,500	38,448,800	+ 7.1
1965	2,406,758,600	2,367,541,900	39,216,700	+ 8.7
1966	2,730,785,600	2,673,737,100	57,048,500	+ 13.5
1967	2,814,803,600	2,761,635,200	53,168,400	+ 3.1
1968	3,043,600,900	2,990,444,200	53,156,700	+ 8.1
1969	3,320,521,800	3,268,934,500	51,587,300	+ 9.1
1970	3,341,044,100	3,298,364,600	42,679,500	+ 0.6
1971	3,463,680,200	3,422,262,100	41,418,100	+ 3.7
1972	3,959,924,500	3,919,862,900	40,061,600	+ 14.3
1973	4,862,056,300	4,815,486,600	46,569,700	+ 22.8
1974	5,792,984,900	5,742,301,300	50,683,600	+ 19.1
1975	5,623,765,200	5,578,612,500	45,152,700	- 2.9
1976	6,443,938,300	6,395,870,800	48,067,500	+ 14.6
1977	6,741,744,100	6,691,170,000	50,574,100	+ 4.6
1978	7,260,097,300	7,204,311,000	55,786,300	+ 7.7
1979	8,407,894,000	8,344,624,600	63,269,400	+ 15.8
1980	9,075,381,800	9,010,411,600	64,970,200	+ 7.9
1981	10,019,521,200	9,956,771,000	64,750,200	+ 10.4
1982	9,343,619,900	9,278,989,700	64,630,200	- 6.7
1983	9,845,258,200	9,778,198,700	67,059,500	+ 5.4
1984	11,567,050,900	11,491,431,700	75,619,200	+ 17.5

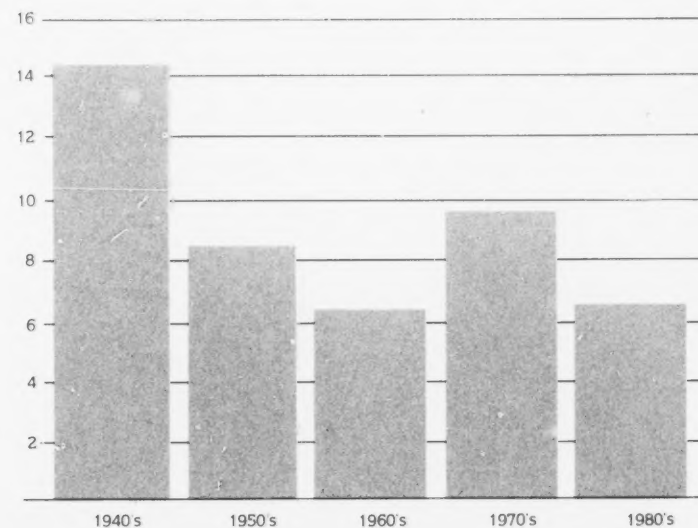
Total Value

Billions of Dollars



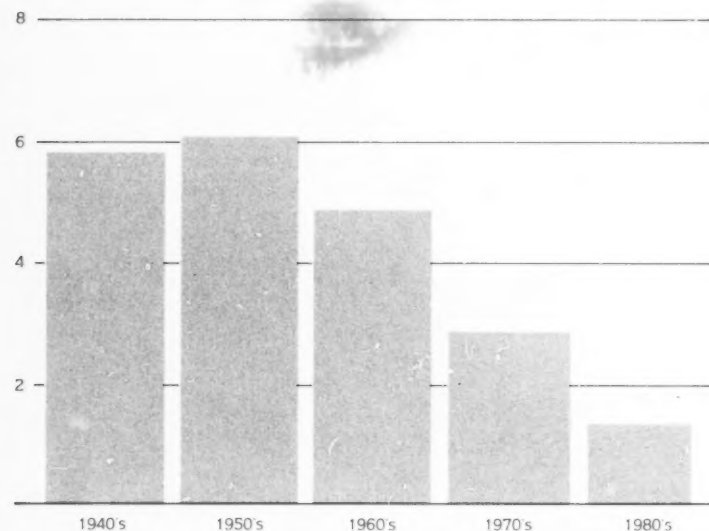
Growth Rates by Decades

Percent



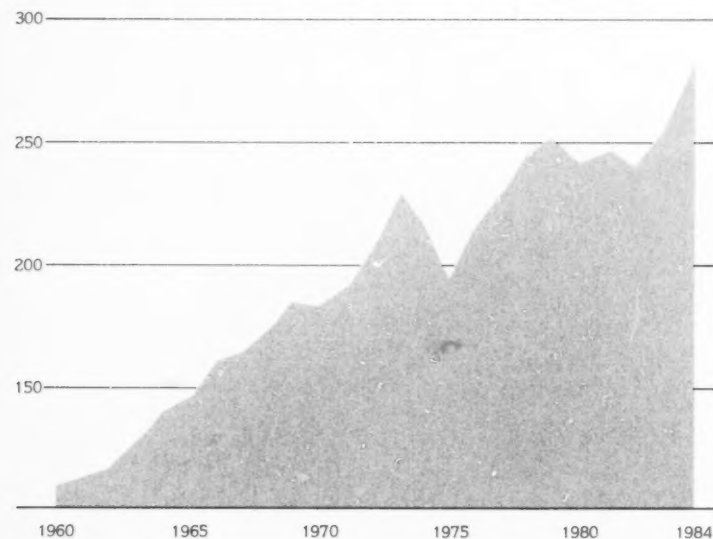
Growth Rates by Decades

Percent



Total Volume

Billions of Square Feet



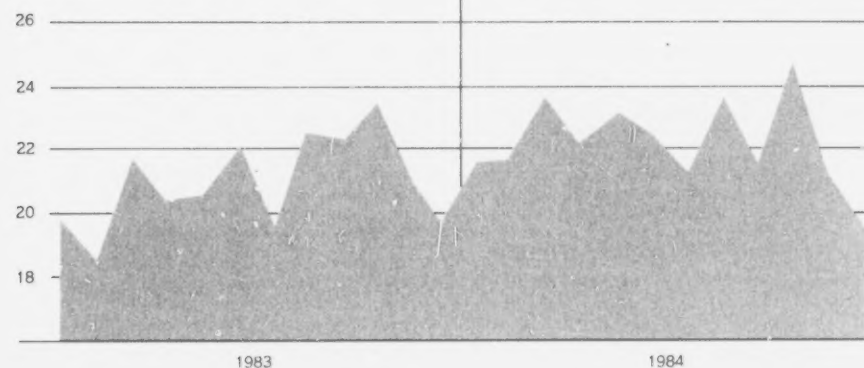
YEAR	TOTAL	CORRUGATED	SOLID FIBRE	YEAR TO YEAR GROWTH
1960	108.931	107.676	1.255	- 1.0%
1961	114.561	113.365	1.196	+ 5.2
1962	122.181	120.994	1.187	+ 6.7
1963	128.663	127.543	1.120	+ 5.3
1964	137.261	136.199	1.062	+ 6.7
1965	148.471	147.393	1.078	+ 8.2
1966	160.452	158.997	1.455	+ 8.1
1967	162.596	161.212	1.384	+ 1.3
1968	173.814	172.361	1.453	+ 6.9
1969	185.652	184.280	1.372	+ 6.8
1970	184.865	183.761	1.104	- 0.4
1971	191.832	190.756	1.076	+ 3.8
1972	211.926	210.880	1.046	+ 10.5
1973	228.052	226.984	1.068	+ 7.6
1974	216.072	215.119	.953	- 5.3
1975	194.329	193.573	.756	- 10.1
1976	216.371	215.565	.806	+ 11.3
1977	227.198	226.360	.838	+ 5.0
1978	243.898	242.999	.899	+ 7.4
1979	250.643	249.701	.942	+ 2.8
1980	241.377	240.490	.887	- 3.7
1981	246.152	245.331	.821	+ 2.0
1982	235.185	234.306	.879	- 4.5
1983	252.539	251.618	.921	+ 7.4
1984	267.547	266.565	.982	+ 5.9

Industry Shipments by Month & Quarter

Billions of Square Feet

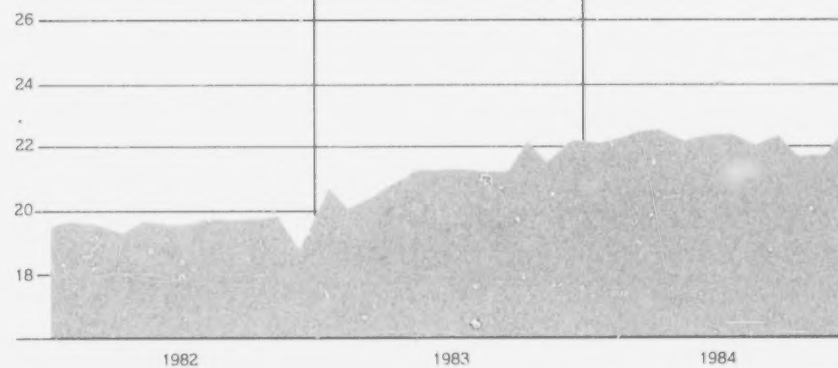
Shipments by Month

Billions of Square Feet



Seasonally Adjusted Shipments by Month

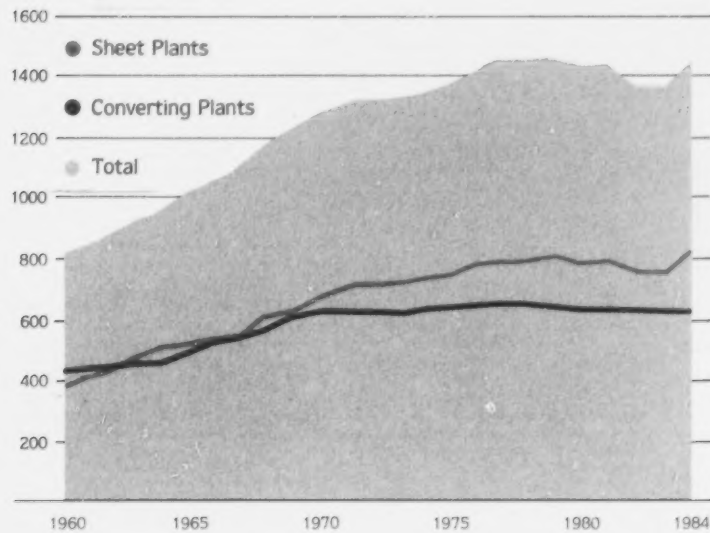
Billions of Square Feet



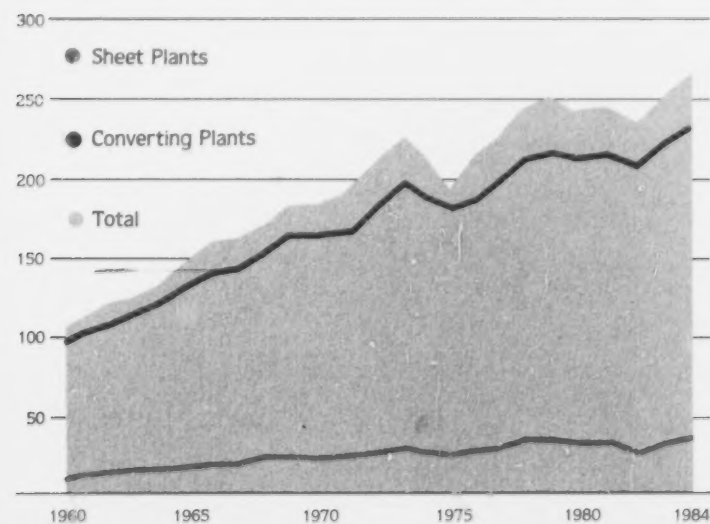
	Jan	Feb	Mar	1st Qtr	Apr	May	Jun	2nd Qtr	Jul	Aug	Sep	3rd Qtr	Oct	Nov	Dec	4th Qtr	Year
1982																	
Average Week	4.360	4.672	4.699	4.576	4.605	4.333	4.635	4.524	4.150	4.722	4.765	4.541	4.852	4.426	3.921	4.394	4.523
Actual	18.892	18.690	21.147	58.729	19.957	18.777	20.084	58.818	18.677	20.462	20.650	59.788	21.025	19.179	17.646	57.850	235.185
Seasonally Adjusted	19.588	19.796	19.552	58.490	19.298	19.751	19.492	58.471	19.516	19.809	19.714	59.299	19.722	19.857	18.987	58.960	
1983																	
Average Week	4.597	4.640	4.851	4.699	4.713	4.781	5.080	4.858	4.520	5.043	5.154	4.907	5.436	4.853	4.416	4.896	4.857
Actual	19.919	18.562	21.828	60.308	20.421	20.719	22.013	63.154	19.588	22.692	22.335	64.615	23.557	21.032	19.873	64.462	252.539
Seasonally Adjusted	20.911	19.700	20.055	60.135	20.555	20.924	21.308	62.674	21.269	21.191	21.186	63.960	22.285	21.773	22.092	65.859	
1984																	
Average Week	5.019	5.235	5.284	5.180	5.307	5.129	5.190	5.206	4.923	5.302	5.225	5.151	5.532	4.889	4.497	4.979	5.145
Actual	21.748	21.815	23.777	67.339	22.111	23.082	22.489	67.681	21.334	23.859	21.772	66.965	24.892	21.185	19.485	65.562	267.547
Seasonally Adjusted	22.005	22.223	22.578	67.195	22.567	22.260	22.459	67.082	22.424	22.079	22.437	66.235	21.886	21.855	22.821	67.088	
Seasonal Adjustment	.9983	.9816	1.0532	100.2	.9798	1.0369	1.0014	100.9	.9514	1.0806	.9704	101.1	1.137.4	.9693	.8538	97.7	

Industry Shipments by Type of Plant

Number of Plants



Shipments by Type of Plant



YEAR	TOTAL		CONVERTERS		SHEET PLANTS			
	Billions of Square Feet	Number of Plants	Billions of Square Feet	Percent of Total	Number of Plants	Billion of Square Feet	Percent of Total	Number of Plants
1960	108.931	812	98.991	90.9	428	9.940	9.1	384
1961	114.561	848	103.875	90.7	433	10.686	9.3	415
1962	122.181	881	109.309	89.5	443	12.872	10.5	438
1963	128.663	928	114.345	88.9	459	14.318	11.1	469
1964	137.261	967	121.531	88.5	463	15.730	11.5	504
1965	148.471	1,011	130.983	88.2	498	17.488	11.8	513
1966	160.452	1,065	140.946	87.8	519	19.506	12.2	546
1967	162.596	1,098	143.200	88.1	548	19.396	11.9	550
1968	173.814	1,184	152.497	87.7	578	21.317	12.3	606
1969	185.652	1,236	163.232	87.9	604	22.420	12.1	632
1970	184.865	1,294	163.230	88.3	623	21.635	11.7	671
1971	191.832	1,323	168.870	88.0	615	22.962	12.0	708
1972	211.926	1,324	184.452	87.0	614	27.474	13.0	710
1973	228.052	1,330	198.646	87.1	607	29.406	12.9	723
1974	216.072	1,358	189.015	87.5	619	27.057	12.5	739
1975	194.329	1,385	170.635	87.8	634	23.694	12.2	751
1976	216.371	1,427	188.694	87.2	645	27.677	12.8	782
1977	227.198	1,450	197.311	86.8	654	29.887	13.2	796
1978	243.898	1,449	211.661	86.8	654	32.237	13.2	795
1979	250.643	1,460	217.105	86.6	649	33.538	13.4	811
1980	241.377	1,422	210.868	87.4	633	30.509	12.6	789
1981	246.152	1,427	214.971	87.3	631	31.181	12.7	796
1982	235.185	1,376	206.799	87.9	623	28.386	12.1	753
1983	252.539	1,370	221.652	87.8	614	30.887	12.2	756
1984	267.547	1,429	233.635	87.3	615	33.912	12.7	814

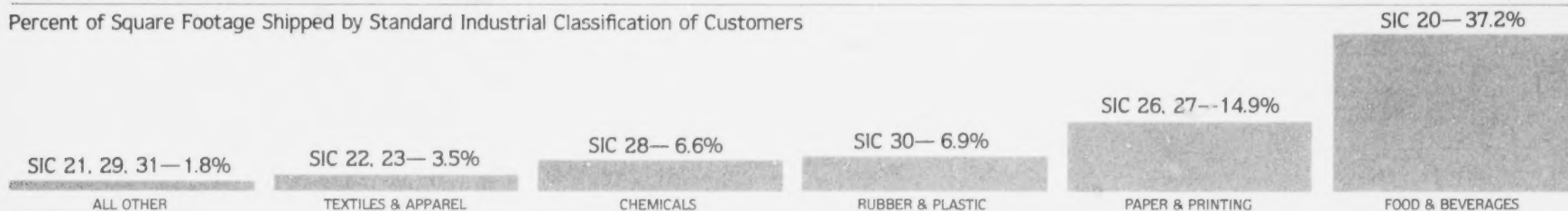
Shipments by End Use Industry

Nondurable Goods

Shipments to Nondurable Goods Industries

70.9% Share of Total Shipments

Percent of Square Footage Shipped by Standard Industrial Classification of Customers



MAJOR SIC GROUP*		MANUFACTURING INDUSTRIES		1982 - 47.3%	1983 - 54.4%	1984 - 47.7%
				22 Companies-304 Plants	24 Companies-357 Plants	20 Companies-278 Plants
20	Food and Kindred Products (except 201, 202, 203, 205, 207, 208 and Fresh Fruits and Vegetables)	8.8%		8.4%		8.8%
201	Meat Products	6.7		7.3		6.3
202	Dairy Products	2.6		2.6		2.4
203	Canning and Preserving Fruits, Vegetables, and Sea Foods	6.5		6.3		6.6
205	Bakery Products	1.9		1.9		1.9
206	Confectionary and Related Products	1.4		1.4		1.2
208	Beverage Industry	3.8		4.1		4.2
950**	Fresh Fruits and Vegetables	5.9		6.1		5.8
			37.6%		38.1%	37.2%
21	Tobacco Manufactures		.7		.7	.6
22	Textile Mill Products (except 227)	2.1		2.2		1.7
227	Floor Covering Mills	.1		.2		.1
			2.2		2.4	1.8
23	Apparel and Other Finished Products made from Fabrics and Similar Materials		1.7		1.7	1.7
26	Paper and Allied Products		11.4		12.9	13.3
27	Printing, Publishing, and Allied Industries (except 273)	1.3		1.3		1.3
273	Books	.4		.4		.3
			1.7		1.7	1.6
28	Chemicals and Allied Products (except 282, 283, 284 and 285)	1.8		1.7		1.5
282	Plastics Materials and Synthetic Resins, Synthetic Rubber, Synthetic and Other Man-Made Fibers, Except Glass	1.2		1.3		1.2
283	Drugs	.6		.6		.6
284	Soap, Detergents and Cleaning Preparations, Perfumes, Cosmetics and Other Toilet Preparations	2.8		2.7		3.0
285	Paints, Varnishes, Lacquers, Enamels and Allied Products	.4		.4		.3
			6.6		6.7	6.6
29	Petroleum Refining and Related Industries (except (295)	.9		.8		.7
295	Paving and Roofing Materials	.1		.1		.1
			1.0		.9	.8
30	Rubber and Miscellaneous Plastics Products (except 307)	1.3		1.1		1.1
307	Miscellaneous Plastics Products	5.3		5.0		5.8
			6.8		6.1	6.9
31	Leather and Leather Products		.4		.5	.4
Sub-Total, Nondurable Goods			70.1		71.7	70.9

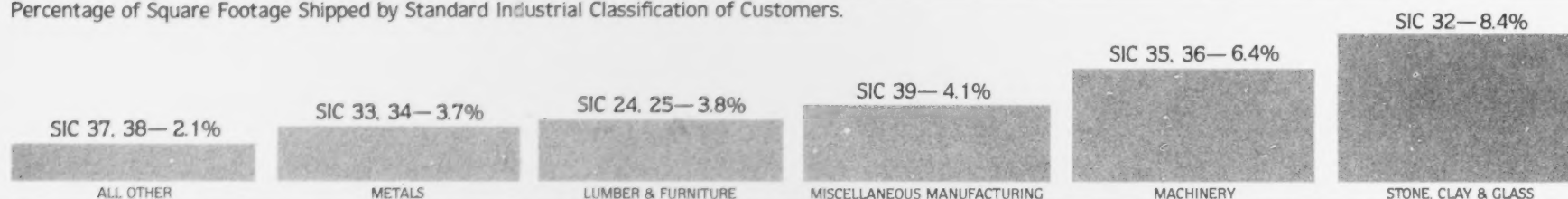
* Standard Industrial Classification ** This number was arbitrarily assigned; not in accordance with Standard Industrial Classification Manual.

The sample as reported here, based on the number of companies indicated in the column headings, will not conform exactly to a complete analysis of sales. The percentages shown should be considered as indicators and not exact proportions. Differences in percentages from year to year can be caused by changes in the list of participating companies. Shipments to sheet plants and jobbers are not included. Companies included in the tabulation operate plants in all areas of the country.

Shipments to Durable Goods Industries

28.5% Share of Total Shipments

Percentage of Square Footage Shipped by Standard Industrial Classification of Customers.



MAJOR SIC GROUP*		MANUFACTURING INDUSTRIES				1982 - 47.3% 22 Companies-304 Plants		1983 - 54.4% 24 Companies-357 Plants		1984 - 47.7% 20 Companies-278 Plants	
24		Lumber and Wood Products, Except Furniture				.9%		1.0%		.8%	
25	251	Furniture and Fixtures (except 251) Household Furniture				1.3% 2.0	⌋ 3.3	1.4% 1.7	⌋ 3.1	1.5% 1.5	⌋ 3.0
32	322 326 329	Stone, Clay, and Glass Products (except 322, 326, and 329) Glass and Glassware, Pressed or Blown Pottery and Related Products Abrasive, Asbestos and Misc. Nonmetallic Mineral Products				1.4 8.0 .2 .3	⌋ 9.9	1.1 5.3 .3 .4	⌋ 7.1	1.2 6.7 .2 .3	⌋ 8.4
33		Primary Metal Industries				.6		.7		.5	
34	341	Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment (except 341) Metal Cans				2.7 .3	⌋ 3.0	3.0 .3	⌋ 3.3	2.9 .3	⌋ 3.2
35	358	Machinery, Except Electrical (except 358) Service Industry Machines				1.6 .3	⌋ 1.9	1.5 .4	⌋ 1.9	1.3 .4	⌋ 1.7
36	363 364 365 366-367	Electrical Machinery, Equipment and Supplies (except 363, 364, 365 and 366-367) Household Appliances Electric Lighting and Wiring Equipment Radio and TV Receiving Sets, Except Communication Types Communication Equipment and Electronic Components and Accessories				1.2 1.5 .8 .4 .4	⌋ 4.3	1.1 1.9 .8 .3 .4	⌋ 4.5	1.0 1.8 .9 .5 .5	⌋ 4.7
37	371	Transportation Equipment (except 371) Motor Vehicles and Motor Vehicle Equipment				.2 1.4	⌋ 1.6	.2 1.3	⌋ 1.5	.2 1.3	⌋ 1.5
38		Professional, Scientific, and Controlling Instruments; Photographic and Optical Goods; Watches and Clocks				.8		.7		.6	
39	394	Miscellaneous Manufacturing Industries (except 394) Toys, Amusement, Sporting and Athletic Goods				2.0 1.1	⌋ 3.1	2.9 1.1	⌋ 4.0	2.9 1.2	⌋ 4.1
		Sub-Total, Durable Goods				29.4		27.8		28.5	
		Sub-Total, Durable Goods				29.4		27.8		28.5	
		Sub-Total, Nondurable Goods				70.1		71.7		70.9	
42		Motor Freight Transportation and Warehousing				.4		.4		.5	
90		Government				.1		.1		.1	
		TOTAL				100.0%		100.0%		100.0%	

* Standard Industrial Classification

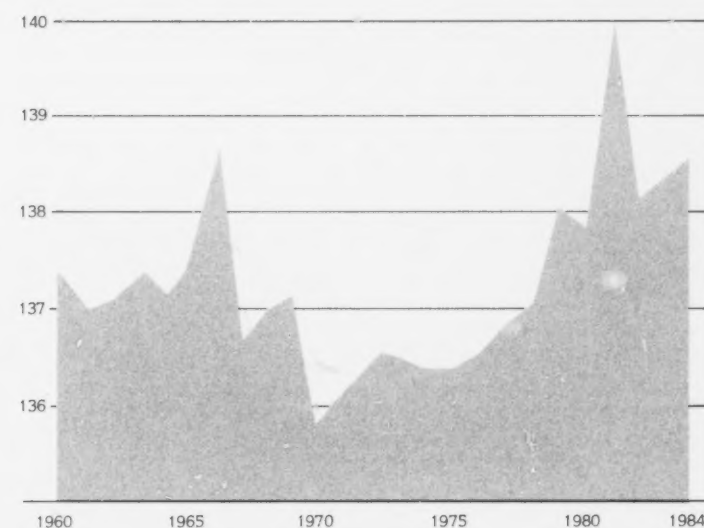
Industry Corrugated Production by Type of Board

Billions of Square Feet

YEAR	Single Face	% Of Total	Single Wall	% Of Total	Double & Triple Wall	% Of Total	Total
1960	1.648	1.5%	104.206	93.1%	6.063	5.4%	111.917
1961	1.486	1.3	110.095	93.1	6.607	5.6	118.188
1962	1.416	1.1	116.879	92.9	7.503	6.0	125.798
1963	1.453	1.1	123.037	92.6	8.372	6.3	132.862
1964	1.390	1.0	131.868	92.5	9.224	6.5	142.482
1965	1.400	0.9	141.941	92.4	10.231	6.7	153.572
1966	1.594	1.0	151.593	91.7	12.025	7.3	165.212
1967	1.569	0.9	154.918	92.1	11.807	7.0	168.294
1968	1.549	0.9	165.937	91.8	13.278	7.3	180.764
1969	1.592	0.8	177.426	91.7	14.571	7.5	193.589
1970	1.548	0.8	177.087	91.9	14.105	7.3	192.740
1971	1.461	0.7	183.775	91.7	15.119	7.6	200.355
1972	1.567	0.7	200.902	91.3	17.641	8.0	220.110
1973	1.490	0.6	216.841	90.9	20.196	8.5	238.527
1974	1.492	0.7	203.449	90.8	19.154	8.5	224.095
1975	1.166	0.6	186.172	91.6	15.892	7.8	203.230
1976	1.305	0.6	207.880	91.2	18.633	8.2	227.818
1977	1.216	0.5	217.184	91.0	20.401	8.5	238.801
1978	1.265	0.5	232.827	90.8	22.309	8.7	256.401
1979	1.166	0.4	236.670	90.7	23.236	8.9	261.072
1980	1.144	0.5	229.054	90.9	21.741	8.6	251.939
1981	1.126	0.5	229.808	90.8	22.098	8.7	253.032
1982	1.188	0.5	224.180	91.0	20.921	8.5	246.289
1983	1.232	0.5	240.302	90.0	22.669	8.6	264.203
1984	1.111	0.4	256.158	90.8	24.749	8.8	282.018

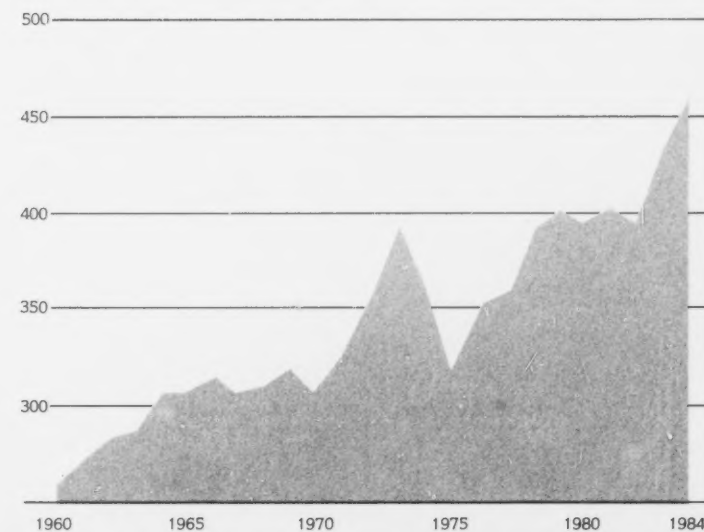
Average Basis Weight

Pounds Per Thousand Square Feet

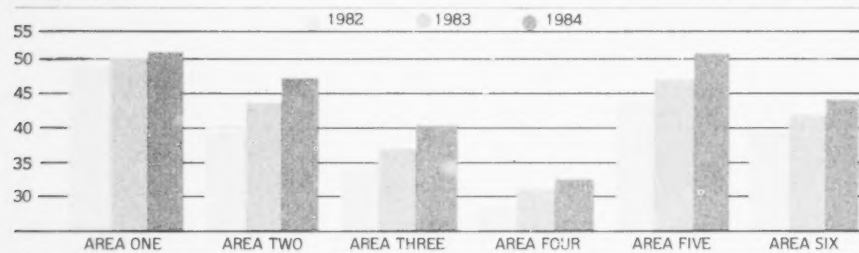


Average Converting Plant Production

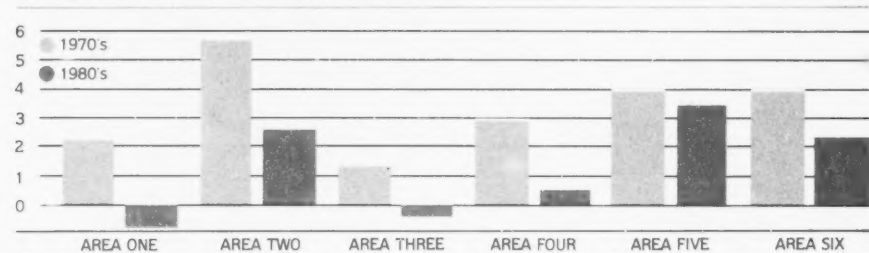
Millions of Square Feet



Shipments



Compounded Annual Growth Rate



AREA 1			AREA 2		AREA 3		AREA 4		AREA 5		AREA 6	
YEAR	Total	% of Industry	Total	% of Industry	Total	% of Industry	Total	% of Industry	Total	% of Industry	Total	% of Industry
1960	29,704	27.3%	11,044	10.1%	23,317	21.4%	15,749	14.5%	14,946	13.7%	14,172	13.0%
1961	30,574	26.7	12,083	10.6	23,759	20.7	16,539	14.4	16,194	14.1	15,412	13.5
1962	32,129	26.3	13,225	10.8	25,170	20.6	18,071	14.8	17,109	14.0	16,478	13.5
1963	33,723	26.2	14,209	11.0	26,562	20.6	18,730	14.6	17,955	14.0	17,484	13.6
1964	35,310	25.7	15,545	11.3	28,385	20.7	20,263	14.8	19,155	14.0	18,604	13.5
1965	37,710	25.4	17,419	11.7	30,938	20.9	21,843	14.7	20,663	13.9	19,898	13.4
1966	39,777	24.8	19,314	12.0	32,882	20.5	22,862	14.3	23,031	14.3	22,586	14.1
1967	39,949	24.6	20,483	12.6	32,363	19.9	22,703	13.9	24,223	14.9	22,875	14.1
1968	42,162	24.3	22,278	12.8	34,430	19.8	24,016	13.8	26,347	15.2	24,581	14.1
1969	44,378	23.9	24,707	13.3	36,320	19.5	25,186	13.6	28,358	15.3	26,703	14.4
1970	44,038	23.8	25,040	13.6	35,194	19.0	24,820	13.4	28,998	15.7	26,774	14.5
1971	44,813	23.4	27,163	14.2	36,374	18.9	25,877	13.5	30,248	15.8	27,356	14.2
1972	48,382	22.8	30,957	14.6	40,248	19.0	28,513	13.5	33,788	15.9	30,038	14.2
1973	51,019	22.4	33,561	14.7	42,689	18.7	30,760	13.5	37,083	16.3	32,941	14.4
1974	48,537	22.5	31,599	14.6	39,146	18.1	28,944	13.4	35,099	16.2	32,747	15.2
1975	42,183	21.7	29,403	15.1	34,134	17.6	25,541	13.2	32,092	16.5	30,976	15.9
1976	46,697	21.6	32,809	15.2	38,326	17.7	28,471	13.2	36,220	16.7	33,848	15.6
1977	48,301	21.3	35,187	15.5	39,845	17.5	29,611	13.0	38,646	17.0	35,609	15.7
1978	52,275	21.4	38,796	15.9	41,433	17.0	31,368	12.9	41,753	17.1	38,273	15.7
1979	53,322	21.3	41,586	16.6	41,071	16.4	31,819	12.7	43,175	17.2	39,670	15.8
1980	50,551	20.9	41,284	17.1	36,912	15.3	30,147	12.5	42,867	17.8	39,616	16.4
1981	50,100	20.4	41,651	16.9	37,618	15.3	30,032	12.2	45,169	18.3	41,582	16.9
1982	48,006	20.4	39,744	16.9	34,263	14.6	28,795	12.2	44,408	18.9	39,969	17.0
1983	50,263	19.9	44,108	17.5	37,194	14.7	31,249	12.4	47,442	18.8	42,283	16.7
1984	51,094	19.1	47,475	17.7	40,285	15.1	32,794	12.3	51,378	19.2	44,521	16.6

Area Shipments

Millions of Square Feet

By Quarter	AREA ONE			AREA TWO			AREA THREE		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
1st Quarter	11,896.6	12,148.2	12,872.2	9,981.0	10,538.3	11,926.9	8,514.0	8,872.4	10,415.7
2nd Quarter	11,799.1	12,577.3	12,931.7	10,144.3	11,130.7	12,025.9	8,408.3	9,121.5	10,149.8
3rd Quarter	12,106.4	12,764.6	12,642.1	9,743.0	11,030.9	11,756.7	8,831.6	9,626.1	10,033.0
4th Quarter	12,113.6	12,772.8	12,647.4	9,875.3	11,407.6	11,765.9	8,509.0	9,574.4	9,686.9
By Month									
January	3,836.5	3,968.8	4,116.8	3,200.9	3,461.7	3,863.5	2,741.2	2,897.8	3,369.2
February	3,798.6	3,630.1	4,138.4	3,191.4	3,310.1	3,914.6	2,716.5	2,750.4	3,366.0
March	4,351.5	4,549.4	4,617.1	3,588.8	3,766.5	4,148.7	3,056.2	3,224.2	3,680.6
April	3,911.9	3,976.6	4,192.4	3,498.1	3,663.5	3,972.6	2,815.7	2,973.9	3,314.2
May	3,724.8	4,124.7	4,365.5	3,261.4	3,664.0	4,114.2	2,697.7	2,980.7	3,473.8
June	4,162.4	4,476.0	4,373.8	3,384.9	3,803.2	3,939.1	2,894.9	3,167.0	3,361.8
July	3,576.4	3,715.6	3,841.9	3,105.5	3,373.8	3,774.4	2,652.3	2,788.4	3,137.1
August	4,176.0	4,494.8	4,593.5	3,324.8	3,836.7	4,174.3	3,046.6	3,432.4	3,598.0
September	4,353.9	4,554.2	4,206.7	3,312.8	3,770.4	3,808.0	3,132.6	3,405.4	3,297.8
October	4,492.7	4,578.1	4,794.2	3,422.7	4,024.3	4,251.3	3,107.6	3,474.0	3,706.2
November	3,967.4	4,152.5	4,105.2	3,334.8	3,739.0	3,799.5	2,869.2	3,189.6	3,135.0
December	3,653.4	4,042.2	3,748.0	3,117.8	3,644.4	3,715.1	2,532.2	2,910.8	2,845.6
Total	48,005.7	50,262.9	51,093.4	39,743.6	44,107.5	47,475.4	34,262.8	37,194.5	40,285.4
By Average Week									
January	885.4	915.9	950.0	738.7	798.9	891.6	632.6	668.7	777.5
February	949.7	907.5	993.2	797.8	827.5	939.5	679.1	687.6	807.8
March	967.0	1,011.0	1,026.0	797.5	837.0	921.9	679.2	716.5	817.9
April	902.8	917.7	1,006.2	807.2	845.4	953.4	649.8	686.3	795.4
May	859.6	951.8	970.1	752.6	845.5	914.3	622.5	687.9	772.0
June	960.6	1,032.9	1,009.3	781.1	877.7	909.0	668.1	730.8	775.8
July	794.8	857.4	886.6	690.1	778.6	871.0	589.4	643.5	724.0
August	963.7	998.8	1,020.8	767.3	863.7	927.6	703.1	762.7	799.6
September	1,004.8	1,051.0	1,009.6	764.5	870.1	913.9	722.9	785.9	791.5
October	1,036.8	1,056.5	1,065.4	789.9	928.7	944.7	717.1	801.7	823.6
November	915.6	958.3	947.4	769.6	862.8	876.8	662.1	736.1	723.5
December	811.9	898.3	864.9	692.8	809.9	857.3	562.7	646.8	656.7
Average	923.2	966.6	982.6	764.3	848.2	913.0	658.9	715.3	774.7

By Quarter	AREA FOUR			AREA FIVE			AREA SIX		
	1982	1983	1984	1982	1983	1984	1982	1983	1984
1st Quarter	7,171.1	7,563.4	8,373.2	11,384.7	11,518.8	12,838.4	9,691.7	9,667.0	10,912.8
2nd Quarter	7,120.8	7,733.8	8,132.2	11,146.1	11,761.6	13,015.3	10,198.9	10,828.7	11,426.2
3rd Quarter	7,416.7	8,109.5	8,340.5	11,142.1	11,962.7	12,963.0	10,548.1	11,121.4	11,229.5
4th Quarter	7,086.6	7,842.2	7,948.5	10,735.7	12,198.6	12,561.5	9,530.0	10,666.2	10,951.9
By Month									
January	2,264.4	2,484.7	2,687.2	3,639.6	3,834.5	4,132.1	3,209.6	3,271.4	3,578.9
February	2,315.1	2,350.7	2,770.3	3,637.3	3,560.7	4,184.0	3,031.1	2,959.6	3,441.2
March	2,591.6	2,728.1	2,915.8	4,107.8	4,123.6	4,522.3	3,451.0	3,436.0	3,892.7
April	2,378.9	2,480.6	2,595.0	3,781.6	3,806.7	4,196.0	3,570.5	3,519.9	3,840.6
May	2,286.8	2,552.3	2,815.0	3,567.0	3,853.1	4,489.0	3,238.8	3,544.7	3,824.2
June	2,455.1	2,700.9	2,722.2	3,797.5	4,101.8	4,330.3	3,389.6	3,764.1	3,761.4
July	2,267.4	2,390.0	2,616.1	3,574.9	3,681.0	4,129.2	3,500.1	3,639.2	3,835.3
August	2,577.1	2,876.3	2,964.7	3,821.7	4,157.1	4,638.6	3,515.3	3,845.2	3,889.8
September	2,572.2	2,843.2	2,759.7	3,745.5	4,124.6	4,195.2	3,532.7	3,637.0	3,504.4
October	2,596.4	2,906.8	3,102.2	3,838.4	4,467.9	4,729.1	3,567.6	4,105.9	4,309.1
November	2,360.8	2,573.1	2,558.3	3,584.0	3,993.0	4,108.1	3,062.5	3,384.3	3,478.6
December	2,129.4	2,362.3	2,288.0	3,313.3	3,737.8	3,724.3	2,899.9	3,176.0	3,164.3
Total	28,795.3	31,249.0	32,794.4	44,408.6	47,441.6	51,378.3	39,968.7	42,283.4	44,520.4
By Average Week									
January	522.6	573.4	620.1	839.9	884.9	953.6	740.7	754.9	825.9
February	578.8	587.7	664.9	909.3	890.2	1,004.2	757.8	739.9	825.9
March	575.9	606.2	647.9	912.8	916.3	1,005.0	766.9	763.6	865.0
April	549.0	572.5	622.8	872.7	878.5	1,007.0	824.0	812.3	921.7
May	527.7	589.0	625.6	823.1	889.2	997.6	747.4	818.0	849.8
June	566.6	623.3	628.2	876.4	946.6	999.3	782.2	868.6	868.0
July	503.9	551.5	603.7	794.4	849.5	952.9	777.8	839.8	885.1
August	594.7	639.2	658.8	881.9	923.8	1,030.8	811.2	854.5	864.4
September	593.6	656.1	662.3	864.3	951.8	1,006.8	815.2	839.3	841.1
October	599.2	670.8	689.4	885.8	1,031.0	1,050.9	823.3	947.5	957.6
November	544.8	593.8	590.4	827.1	921.5	948.0	706.7	781.0	802.7
December	473.2	525.0	528.0	736.3	830.6	859.5	644.4	705.8	730.2
Average	553.8	600.9	630.7	854.0	912.3	988.0	768.6	813.1	856.2

Containerboard Production & Consumption

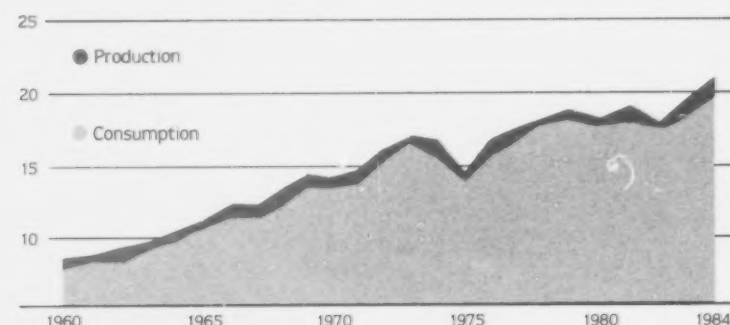
Thousands of Tons

Production for Domestic Use

YEAR	TOTAL	LINERBOARD			CORRUGATING MATERIALS			Total Chip & Filler Boards
		Kraft	Recycled	Total	Semi-chemical & Kraft	Recycled	Total	
1960	8,186.6	4,731.2	743.6	5,474.8	1,788.9	672.1	2,461.0	250.8
1961	8,661.3	5,095.7	658.2	5,753.9	2,023.5	625.8	2,649.3	258.1
1962	9,299.0	5,514.7	701.8	6,216.5	2,188.8	633.3	2,822.1	260.4
1963	9,638.3	5,706.1	707.9	6,414.0	2,287.1	674.7	2,961.8	262.5
1964	10,341.9	6,188.0	719.5	6,907.5	2,447.4	717.7	3,165.1	269.3
1965	11,199.1	6,698.1	782.5	7,480.6	2,638.2	800.0	3,438.2	280.3
1966	12,459.6	7,550.2	797.1	8,347.3	2,909.8	890.0	3,799.8	312.5
1967	12,248.6	7,693.3	522.3	8,215.6	2,982.1	761.4	3,743.5	289.5
1968	13,388.4	8,612.2	431.5	9,043.7	3,371.2	690.7	4,061.9	282.8
1969	14,396.4	9,345.3	347.1	9,692.4	3,617.0	778.4	4,395.4	308.6
1970	13,964.3	9,133.4	269.7	9,403.1	3,404.7	859.3	4,264.0	297.2
1971	14,353.0	9,249.1	281.7	9,530.8	3,580.2	939.5	4,519.7	302.5
1972	16,019.0	10,577.6	278.9	10,856.5	3,874.2	972.3	4,846.5	315.9
1973	16,928.1	11,066.9	289.1	11,355.9	4,126.5	1,128.5	5,255.0	317.1
1974	16,767.0	10,838.4	467.1	11,305.4	4,010.3	1,169.0	5,179.2	282.3
1975	14,586.2	9,646.9	207.3	9,854.2	3,579.4	870.0	4,449.3	282.6
1976	16,700.2	11,093.2	282.7	11,375.9	3,986.5	1,075.1	5,061.5	262.9
1977	17,167.3	11,354.4	341.3	11,695.7	4,128.2	1,079.7	5,207.9	263.7
1978	17,908.2	11,877.2	256.4	12,133.7	4,305.3	1,197.7	5,503.1	271.5
1979	18,824.8	12,417.3	402.3	12,819.6	4,573.6	1,202.3	5,775.9	229.3
1980	18,070.2	11,948.6	444.5	12,393.1	4,398.5	1,047.1	5,445.6	231.5
1981	19,040.0	12,754.3	324.2	13,078.5	4,561.2	1,140.9	5,702.1	259.5
1982	17,507.5	11,656.5	279.0	11,935.5	4,202.5	1,139.3	5,341.8	230.2
1983	19,173.0	12,835.6	289.1	13,124.7	4,532.7	1,305.4	5,838.1	210.2
1984*	20,930.2	14,175.8	198.5	14,374.3	5,101.2	1,390.9	6,401.1	154.8

Production vs Consumption

Millions of Tons



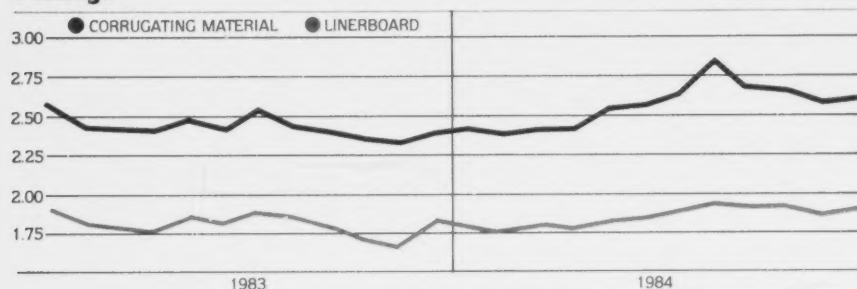
Consumption by Box Plants

YEAR	TOTAL	LINERBOARD	CORRUGATING MATERIALS	FILLER BOARD
1960	7,901.3	5,361.6	2,422.2	117.5
1961	8,293.9	5,634.1	2,547.8	112.0
1962	8,820.4	6,000.0	2,716.5	103.9
1963	9,300.7	6,327.4	2,881.9	91.4
1964	9,949.1	6,763.9	3,091.8	93.4
1965	10,735.7	7,315.8	3,327.5	92.4
1966	11,707.9	7,996.5	3,592.1	119.3
1967	11,752.0	8,022.3	3,626.7	103.0
1968	12,616.8	8,625.9	3,885.9	105.0
1969	13,487.2	9,229.2	4,166.3	91.7
1970	13,267.5	9,079.0	4,107.1	81.4
1971	13,806.8	9,465.2	4,273.4	68.2
1972	15,189.4	10,428.8	4,697.7	62.9
1973	16,446.4	11,315.1	5,059.7	71.6
1974	15,428.8	10,621.2	4,746.2	61.4
1975	13,975.4	9,609.1	4,320.2	46.1
1976	15,677.1	10,782.0	4,844.4	50.7
1977	16,464.1	11,318.3	5,102.5	43.3
1978	17,708.7	12,168.4	5,494.7	45.6
1979	18,159.7	12,456.0	5,654.5	49.2
1980	17,489.5	12,018.5	5,427.4	43.6
1981	17,821.2	12,262.4	5,530.4	28.4
1982	17,117.9	11,751.3	5,337.4	29.2
1983	18,395.7	12,594.4	5,767.7	33.6
1984	19,672.7	13,460.9	6,176.6	35.2

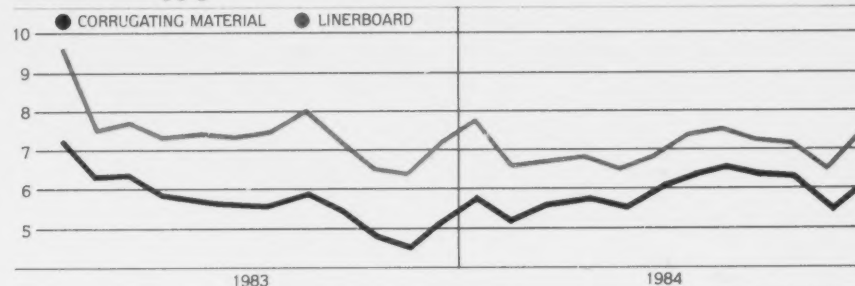
NOTE: The apparent disparity between containerboard production, consumption and inventories is attributable to two factors:
 (1) about 4% of production is diverted to other uses such as tube/stock, composite cans/drums; (2) production includes container chip which is not consumed on solid fibre pasters. *Preliminary Source: American Paper Institute, Inc.

Tonnage

Millions of Tons



Weeks of Supply



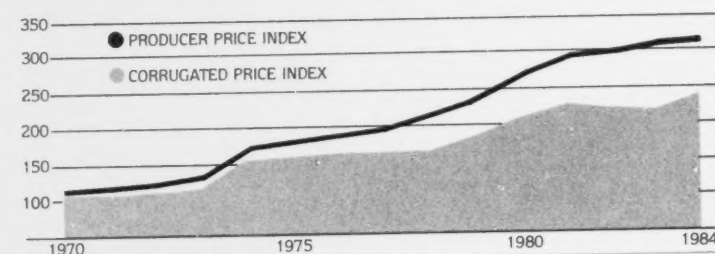
1983	Jan 1	Feb 1	Mar 1	Apr 1	May 1	Jun 1	Jul 1	Aug 1	Sep 1	Oct 1	Nov 1	Dec 1	Jan 1
Linerboard:													1984
Box Plants	1,670.1	1,544.1	1,529.4	1,545.2	1,600.5	1,564.5	1,603.6	1,591.4	1,556.5	1,523.1	1,516.0	1,597.7	1,630.1
Mills	245.8	258.5	244.1	223.9	241.2	251.2	255.5	253.8	236.7	221.3	211.9	218.1	179.6
Total	1,915.9	1,802.6	1,773.5	1,769.1	1,841.7	1,815.7	1,859.1	1,845.2	1,793.2	1,744.4	1,727.9	1,815.8	1,809.7
Wks. of Supply	9.6	7.5	7.6	7.3	7.4	7.3	7.4	8.0	7.2	6.5	6.4	7.2	7.8
Corr. Mat'ls:													
Box Plants	631.7	638.9	647.9	606.1	611.2	603.6	611.0	598.8	593.2	558.3	538.1	567.2	595.7
Mills	26.6	35.0	32.8	32.4	34.8	35.7	34.2	34.2	26.2	27.6	25.7	27.8	24.6
Total	658.3	673.9	680.7	638.5	646.0	639.3	645.2	633.0	619.4	585.9	563.8	595.0	620.3
Wks. of Supply	7.2	6.2	6.4	5.8	5.7	5.6	5.6	5.9	5.4	4.8	4.5	5.1	5.8
Filler Board:	6.0	5.4	4.7	4.9	5.4	6.5	5.0	5.4	6.7	5.7	6.7	4.4	6.5
Total Contbd:	2,584.0	2,485.2	2,461.5	2,414.4	2,495.3	2,463.4	2,511.3	2,486.3	2,421.3	2,339.2	2,301.5	2,415.4	2,436.7
Wks. of Supply													
At Box Plants	7.9	6.3	6.4	6.1	6.1	6.0	6.0	6.5	5.9	5.4	5.2	5.9	6.6
At Mill Sites	1.0	.8	.8	.7	.8	.8	.8	.9	.7	.6	.6	.6	.6
Total	8.9	7.1	7.2	6.8	6.9	6.8	6.8	7.4	6.6	6.0	5.8	6.5	7.2
1984													1985
Linerboard:													
Box Plants	1,630.1	1,532.7	1,560.7	1,558.6	1,605.7	1,630.3	1,726.7	1,786.6	1,747.1	1,723.3	1,651.7	1,634.1	1,784.1
Mills	179.6	218.8	215.1	197.6	200.0	183.6	180.1	179.5	185.4	196.9	217.4	280.0	319.2
Total	1,809.7	1,751.5	1,775.8	1,756.2	1,805.7	1,813.9	1,906.8	1,966.1	1,932.5	1,920.2	1,869.1	1,914.1	2,103.3
Wks. of Supply	7.8	6.5	6.7	6.8	6.5	6.8	7.4	7.5	7.3	7.1	6.5	7.5	8.9
Corr. Mat'ls:													
Box Plants	595.7	613.7	644.2	648.2	668.3	686.9	715.9	760.9	742.3	735.9	683.7	661.5	684.8
Mills	24.6	37.0	38.5	37.5	33.1	34.0	29.6	35.5	29.3	37.9	42.0	66.9	88.4
Total	620.3	650.7	682.7	685.7	701.4	720.9	745.5	796.4	771.6	773.9	725.7	728.4	773.2
Wks. of Supply	5.8	5.2	5.6	5.7	5.5	5.9	6.3	6.6	6.4	6.3	5.5	6.3	7.1
Filler Board:	6.5	6.2	7.3	5.5	5.0	5.3	5.7	3.5	6.0	6.2	5.4	5.6	3.7
Total Contbd:	2,436.7	2,407.8	2,466.1	2,447.5	2,512.3	2,540.5	2,658.6	2,766.8	2,710.5	2,701.8	2,601.7	2,649.5	2,881.6
Wks. of Supply													
At Box Plants	6.6	5.4	5.7	5.8	5.6	6.0	6.5	6.6	6.5	6.3	5.6	6.2	7.2
At Mill Sites	.6	.6	.7	.6	.6	.5	.6	.6	.5	.6	.6	.9	1.2
Total	7.2	6.0	6.4	6.4	6.2	6.5	7.1	7.2	7.0	6.9	6.2	7.1	8.4

Corrugated Price & Producer Price Index

1967 = 100

YEAR	1ST QTR	2ND QTR	3RD QTR	4TH QTR	YEAR
1960	98.8	98.2	96.3	97.0	97.4
1961	95.7	94.0	90.6	94.5	93.4
1962	94.9	97.1	95.5	96.2	95.9
1963	95.1	94.0	92.9	95.5	94.1
1964	95.1	94.5	92.7	94.2	94.0
1965	93.8	93.9	92.8	96.3	94.3
1966	96.7	98.2	97.8	100.4	98.3
1967	100.7	100.2	98.6	100.4	100.0
1968	101.9	101.0	99.3	102.0	101.1
1969	102.4	102.9	102.3	105.1	103.3
1970	105.3	104.9	103.8	105.0	104.8
1971	104.4	104.7	103.4	104.1	104.2
1972	104.2	106.7	107.0	110.8	107.4
1973	114.1	120.2	124.7	129.8	122.5
1974	135.4	147.7	161.0	170.6	153.2
1975	168.1	166.0	163.7	165.0	165.5
1976	169.0	170.9	168.9	169.6	169.6
1977	167.4	168.2	168.6	168.4	168.2
1978	164.7	165.7	166.9	174.5	168.1
1979	178.6	187.3	190.3	199.6	188.9
1980	209.7	214.3	212.9	214.4	212.8
1981	222.8	232.5	232.4	232.6	230.0
1982	229.4	229.6	223.2	221.3	225.9
1983	217.3	218.6	217.2	224.8	219.5
1984	230.0	242.6	242.6	254.1	242.3

Corrugated Price Index vs Producer Price Index



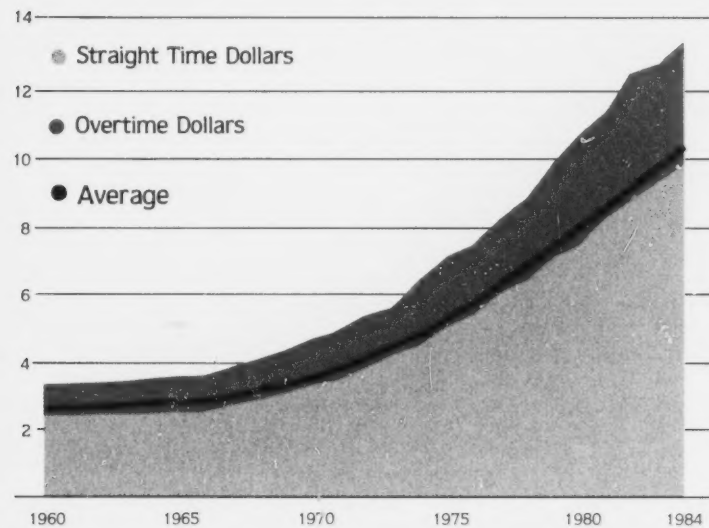
Corrugated Price Index by Area

	1982	1983	1984
Area One - Northeastern			
1st Quarter	222.4	211.3	224.0
2nd Quarter	218.8	209.8	234.5
3rd Quarter	214.7	209.7	236.2
4th Quarter	213.5	217.8	248.7
YEAR	217.4	211.8	235.8
Area Two - Southeastern			
1st Quarter	229.0	217.5	231.6
2nd Quarter	229.7	218.8	245.3
3rd Quarter	221.2	213.9	243.5
4th Quarter	220.5	227.5	259.3
YEAR	225.2	219.5	244.8
Area Three - East Central			
1st Quarter	221.0	209.0	224.3
2nd Quarter	220.5	210.4	236.3
3rd Quarter	212.8	212.5	237.0
4th Quarter	212.0	219.8	250.2
YEAR	216.5	213.0	236.7
Area Four - North Central			
1st Quarter	230.6	217.1	232.0
2nd Quarter	227.4	216.0	245.1
3rd Quarter	219.5	215.4	244.3
4th Quarter	219.3	225.0	257.0
YEAR	224.2	218.4	244.4
Area Five - South Central			
1st Quarter	223.2	210.0	222.0
2nd Quarter	222.0	210.4	230.8
3rd Quarter	213.9	207.1	230.2
4th Quarter	212.5	215.2	242.6
YEAR	218.0	210.6	230.8
Area Six - Western			
1st Quarter	257.9	246.8	255.9
2nd Quarter	265.5	253.2	271.9
3rd Quarter	262.0	252.6	273.0
4th Quarter	257.3	250.4	275.4
YEAR	260.7	250.9	269.2

Hours, Earnings & Productivity

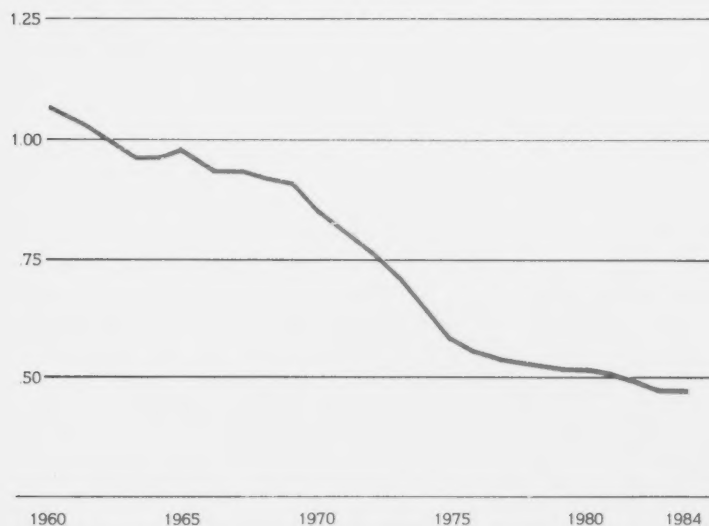
Hourly Earnings

Dollars



Productivity

Hours per M.S.F.



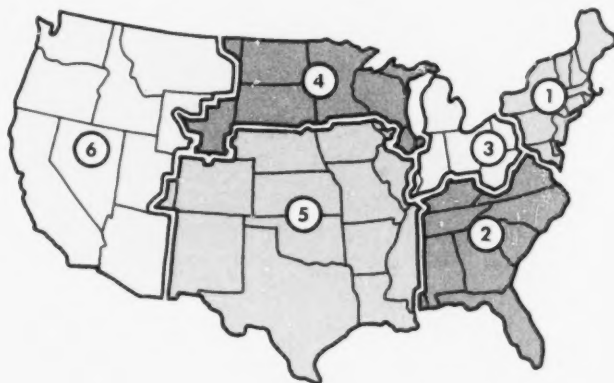
INDUSTRY AVERAGES

YEAR	Total No. of Employees	Hours per Week per Employee	Hourly Earnings			Earnings per Week per Employee	M Sq. Ft. Shipments per Wk. per Employee	Employee Hours per M Sq. Ft.	Payroll per M Sq. Ft. All Plants
Average	Regular	Overtime							
1960	54,600	40.9	\$2.224	\$2.324	\$3.238	\$ 95.21	38.7	1.06	\$2.46
1961	55,200	41.7	2.455	2.344	3.346	102.48	40.5	1.03	2.53
1962	57,400	41.5	2.529	2.418	3.435	104.82	41.4	1.00	2.53
1963	60,300	41.6	2.605	2.487	3.543	108.40	42.3	.98	2.56
1964	62,400	42.1	2.687	2.562	3.604	113.22	43.0	.98	2.63
1965	66,100	43.3	2.750	2.613	3.661	119.00	43.7	.99	2.72
1966	70,300	42.8	2.850	2.699	3.819	121.98	44.9	.95	2.71
1967	69,900	41.4	2.995	2.861	3.995	124.13	43.8	.95	2.84
1968	74,000	42.0	3.157	2.986	4.245	132.62	44.8	.94	2.96
1969	76,900	42.2	3.330	3.159	4.467	140.48	45.3	.93	3.10
1970	74,100	40.1	3.551	3.415	4.811	142.39	46.6	.86	3.06
1971	73,400	40.9	3.833	3.684	5.083	156.75	50.5	.81	3.10
1972	74,300	41.5	4.132	3.944	5.508	171.57	54.9	.76	3.13
1973	77,400	40.8	4.404	4.214	5.855	179.59	57.3	.71	3.13
1974	71,900	38.3	4.725	4.566	6.428	181.02	57.4	.67	3.16
1975	60,500	37.9	5.261	5.075	7.156	199.49	59.8	.63	3.33
1976	65,200	38.9	5.726	5.513	7.683	222.59	63.3	.61	3.52
1977	65,100	39.5	6.265	6.030	8.384	247.59	66.5	.59	3.72
1978	67,300	39.6	6.820	6.541	9.057	270.39	69.8	.57	3.88
1979	67,500	39.2	7.421	7.143	9.947	291.26	74.0	.53	3.94
1980	63,600	38.2	7.968	7.697	10.823	304.16	72.4	.53	4.20
1981	63,100	37.3	8.747	8.488	11.518	327.62	73.6	.51	4.45
1982	59,100	36.8	9.340	9.081	12.537	343.78	74.4	.50	4.62
1983*	59,600	37.9	9.803	9.472	12.777	370.69	79.9	.47	4.84
1984	61,500	38.5	10.278	9.913	13.320	395.78	82.3	.47	4.81

*Revised

The reports received from the members are advanced to represent the entire industry. The employees represented are production workers, truckers, chauffeurs, watchmen, engineers, maintenance workers, etc. The total does not include executives, supervisors, salespersons, clerical and office employees. The footage includes the total shipments of all converting plants but not sheet plants; however, sheet plant labor costs are included. The above data covers only the direct payroll including pay for hours not worked. It does not include cost of pensions, medical insurance, etc.

Statistical Areas & Definitions



The Fibre Box Association has divided The United States into six Areas for statistical purposes.

Area 1—Northeastern
Area 2—Southeastern

Area 3—East Central
Area 4—North Central

Area 5—South Central
Area 6—Western

Areas: The United States is divided into six statistical Areas. The boundaries of Areas 4, 5 and 6 were modified in 1980, and all prior-year data has been amended accordingly.

Average Week: An average work week for statistical purposes consists of six working days.

Basis Weight: The average weight of combined corrugated board per thousand square feet is derived by dividing containerboard consumption for corrugated board by corrugator production.

Containerboard: Paperboard components from which corrugated and solid fibreboard are manufactured.

Container Chip and Filler Board: Paperboard manufactured as a filler for solid fibre and paperboard for conversion into either single or multi-ply components for interior packing in corrugated or solid fibre boxes.

Converter and Sheet Plant: A converter makes corrugated board on one or more corrugating machines, and makes boxes from the board. A sheet plant buys corrugated board from a converting plant, and makes boxes from the board.

Corrugated Price Index: The Corrugated Price Index is developed by dividing the total dollars of sales of all corrugated products by the square footage of these products, based on member company data only. The price per M square feet of all corrugated products shipped by members is then converted to an index, 1967=100.

Corrugating Materials: Paperboard used as the fluted member of a corrugated product, usually .009 or .010 of an inch thick.

Corrugated Production: The actual total square footage produced on corrugators during the year. It differs from shipments in that production includes waste and trim before fabrication.

Filler Board: See Container Chip and Filler Board.

Industry: Any statistic termed "Industry," such as "Industry Shipments," is based upon information received from all manufacturers, both members and non-members of the Association.

Kraft Linerboard: Fiber furnish contains not less than eighty percent virgin sulphate woodpulp, produced by the kraft (sulphate) process.

Linerboard: Paperboard used as a facing on corrugated or solid fibre products.

Number of Plants: The data indicates the number of plants in each category which were in operation during all or any part of the year. This is not necessarily the number in operation at year-end.

Producer Price Index: The Bureau of Labor Statistics' Producer Price Index represents the wholesale prices of about 2,000 commodities, 1967=100.

Recycled Corrugating Material: Fiber furnish contains less than seventy-five percent virgin woodpulp.

Recycled Linerboard: Fiber furnish contains less than eighty percent virgin sulphate woodpulp.

Seasonally Adjusted Month: Actual shipments are seasonally adjusted using factors based on experience of the latest and preceding years.

Seasonal Adjustment: The adjustment factor is a composite of the seasonal factors and the regression trading day adjustment factors. The adjustment is continually revised; factors used in 1982 and 1983 are not identical to those used in 1984.

Semichemical Corrugating Material: Contains fiber furnish not less than seventy-five percent virgin woodpulp, produced by a semichemical process. Also includes kraft corrugating material in which the fiber furnish is not less than eighty percent virgin woodpulp that is produced by the kraft (sulphate) process.

Weeks of Supply: Obtained by dividing inventories by the average weekly usage in fibre box plants during the prior month excluding any holidays.